

# California Water Update

March 1, 2016



**Mark W. Cowin**

**Director**

**California Department of Water Resources**



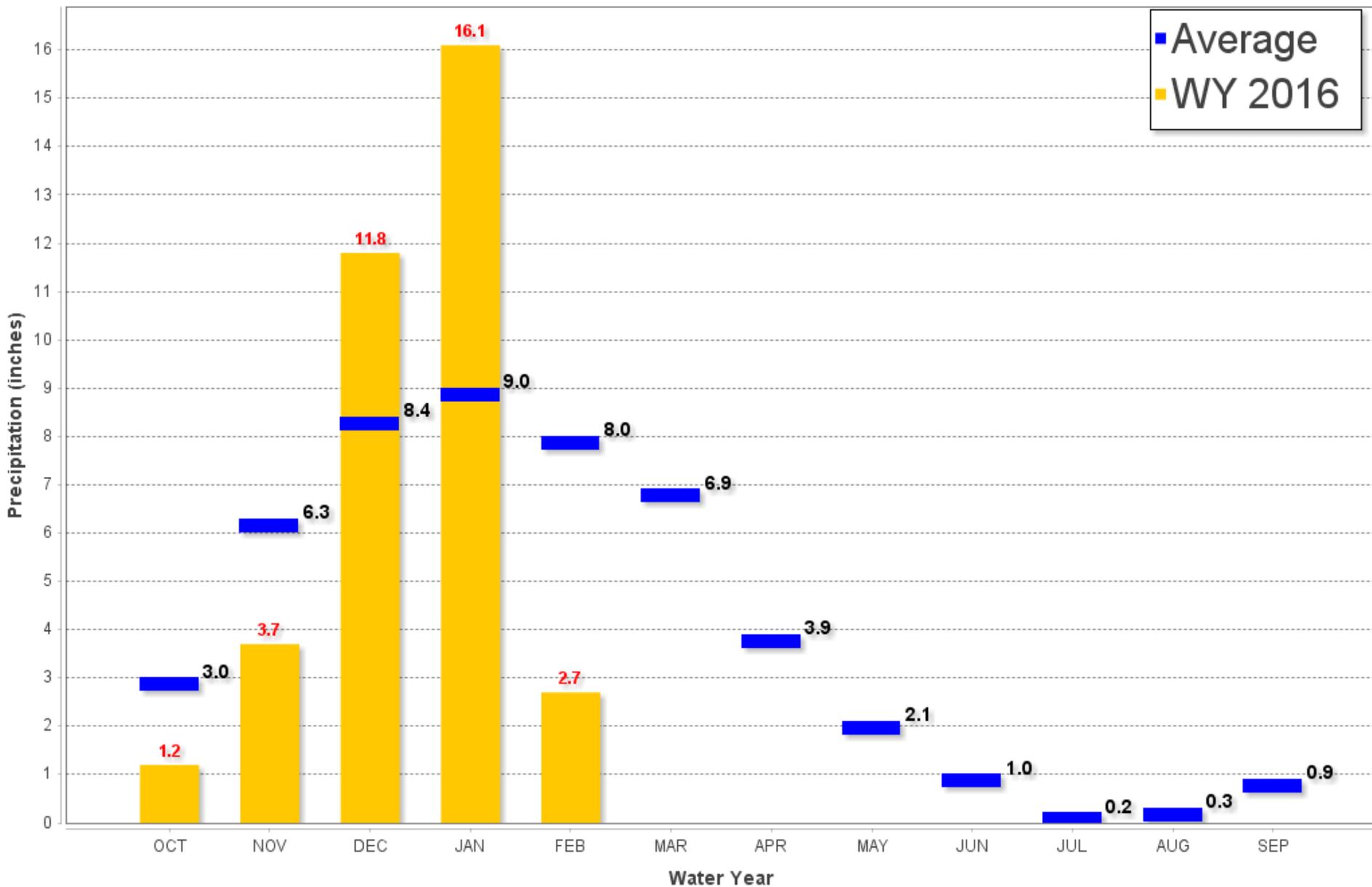


# Northern Sierra 8-Station

## Precipitation Index for Water Year 2016 - Updated on February 23, 2016 08:45 AM

Note: Monthly totals may not add up to seasonal total because of rounding

Water Year Monthly totals are calculated based on Daily precipitation data from 12am to 12am PST



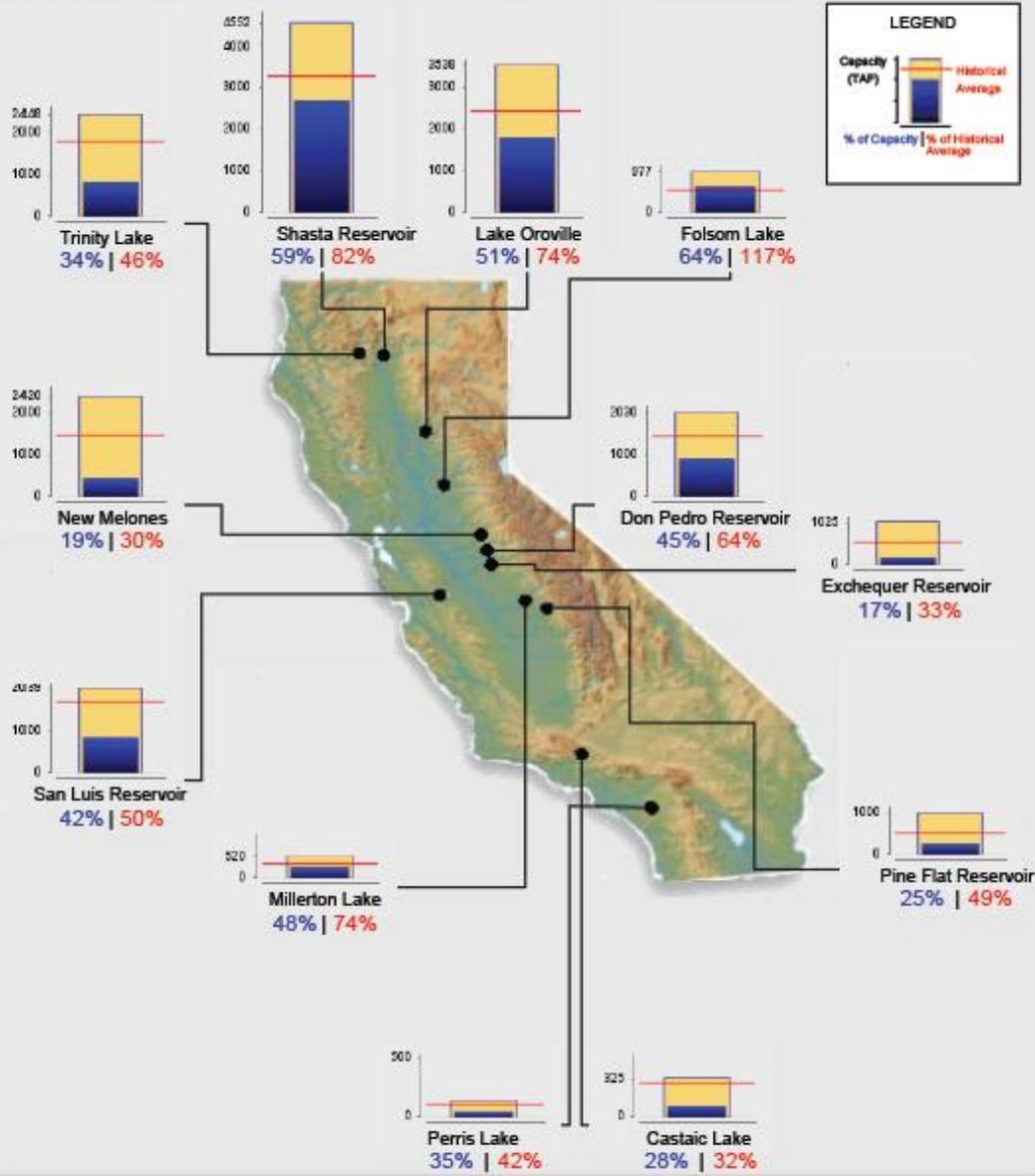


# Reservoir Conditions

Ending At Midnight - February 23, 2016



## CURRENT RESERVOIR CONDITIONS



	% Average	
	Feb 23, 2016	Feb 23, 2015
Shasta	82%	79%
Oroville	74%	70%
Folsom	117%	104%
San Luis	50%	74%



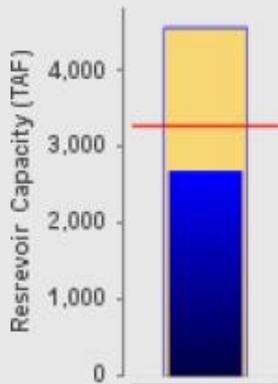
# Reservoir Conditions - Shasta Reservoir



Lake Shasta

## Lake Shasta Conditions

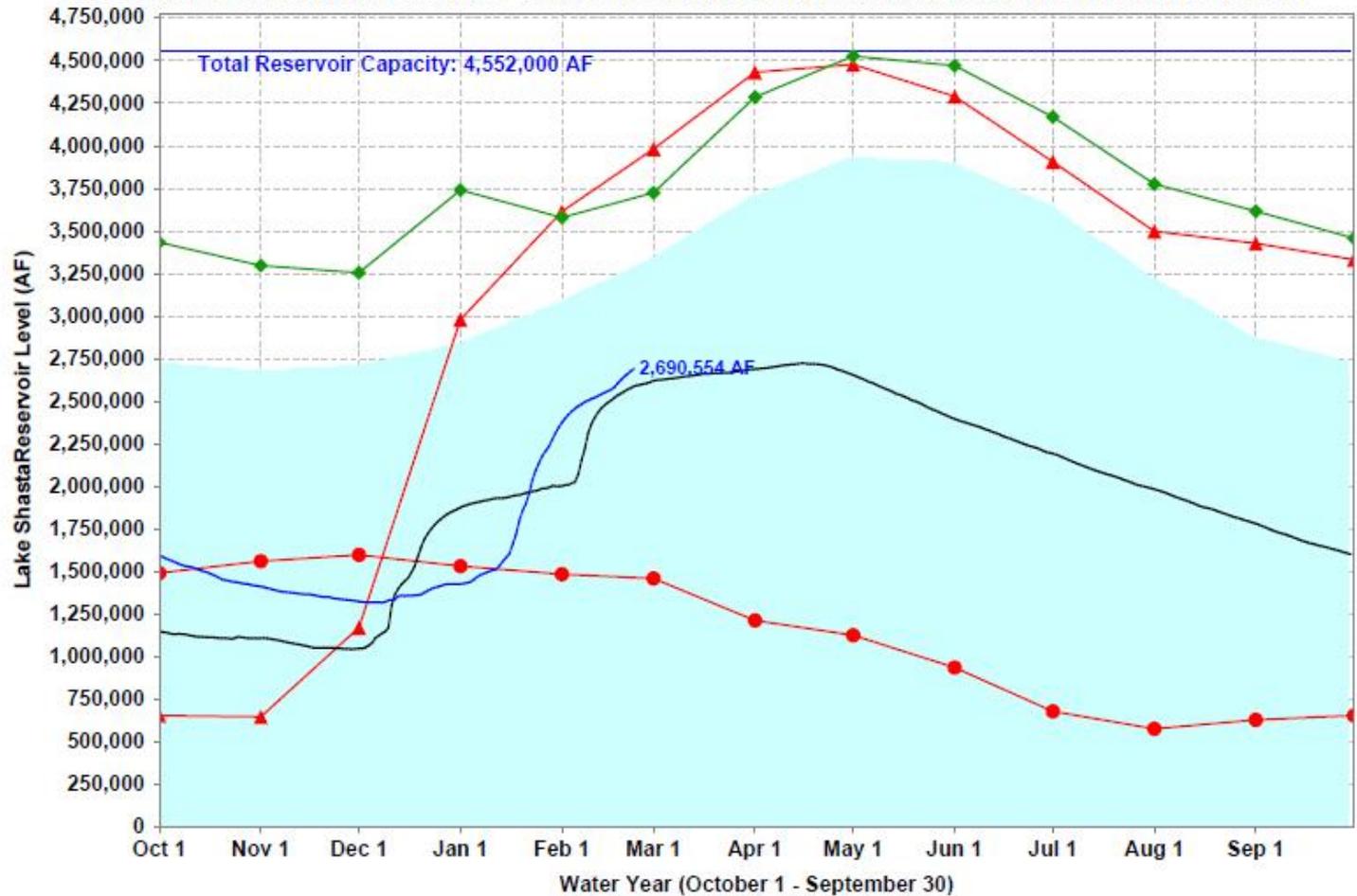
(as of Midnight - February 23, 2016)



Current Level: 2,690,554 AF

59% (Total Capacity) | 82% (Historical Avg.)

Lake Shasta Levels: Various Past Water Years and Current Water Year, Ending At Midnight February 23, 2016



■ Historical Average 
 — Total Reservoir Capacity 
 ● 1976-1977 (Driest) 
 ▲ 1977-1978 
 ◆ 1982-1983 (Wettest) 
 — 2014-2015  
— Current: 2015-2016

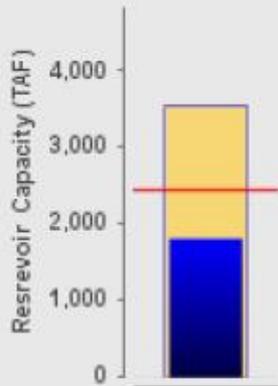


# Reservoir Conditions - Lake Oroville



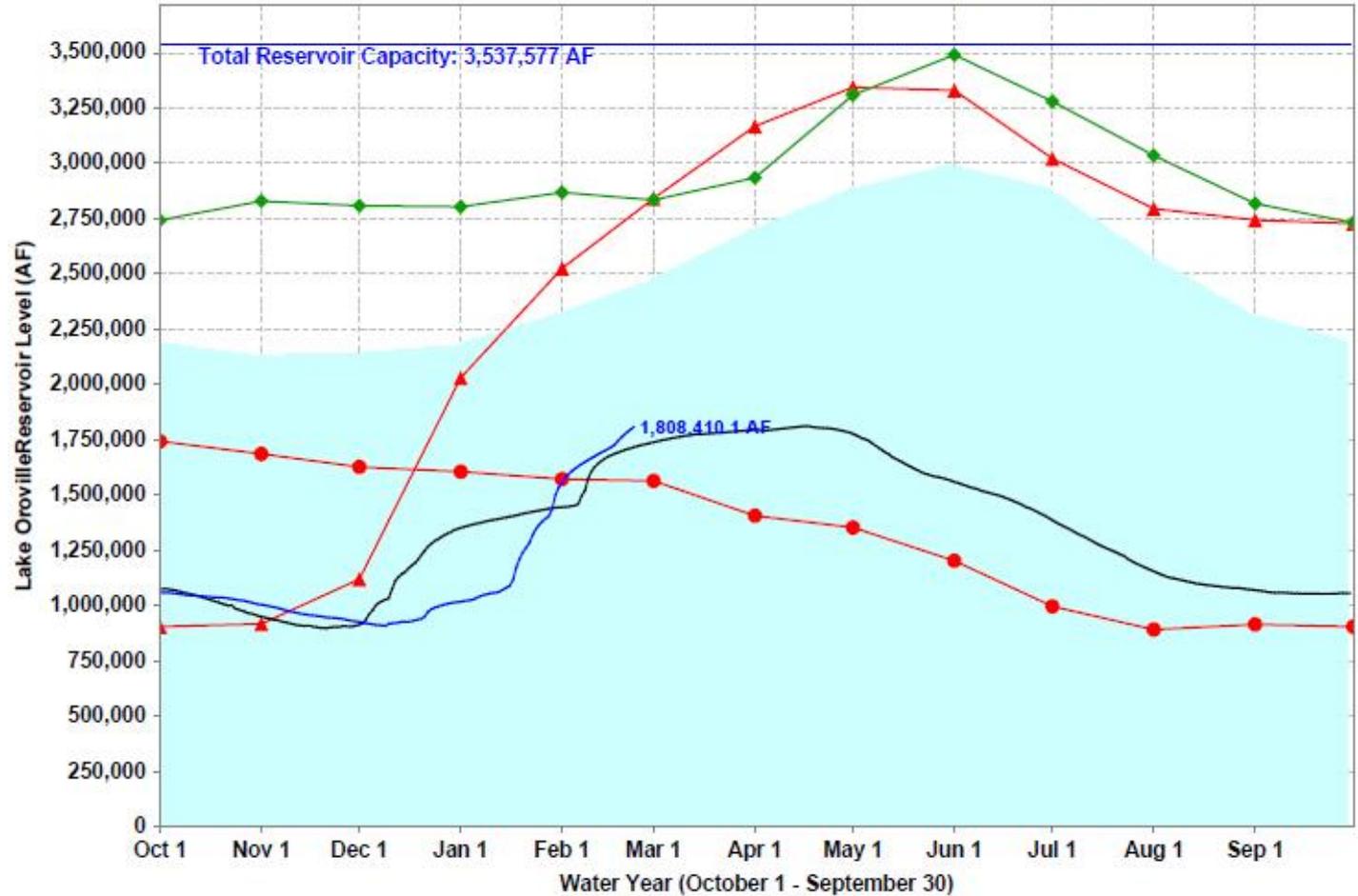
## Lake Oroville Conditions

(as of Midnight - February 23, 2016)



Current Level: 1,808,410.1 AF  
 51% (Total Capacity) | 74% (Historical Avg.)

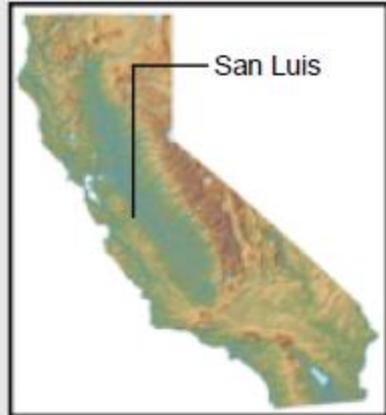
Lake Oroville Levels: Various Past Water Years and Current Water Year, Ending At Midnight February 23, 2016



■ Historical Average  
 — Total Reservoir Capacity  
 ● 1976-1977 (Driest)  
 ▲ 1977-1978  
 ◆ 1982-1983 (Wettest)  
 — 2014-2015  
— Current: 2015-2016

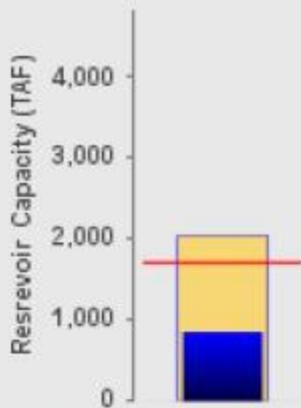


# Reservoir Conditions - San Luis



## San Luis Conditions

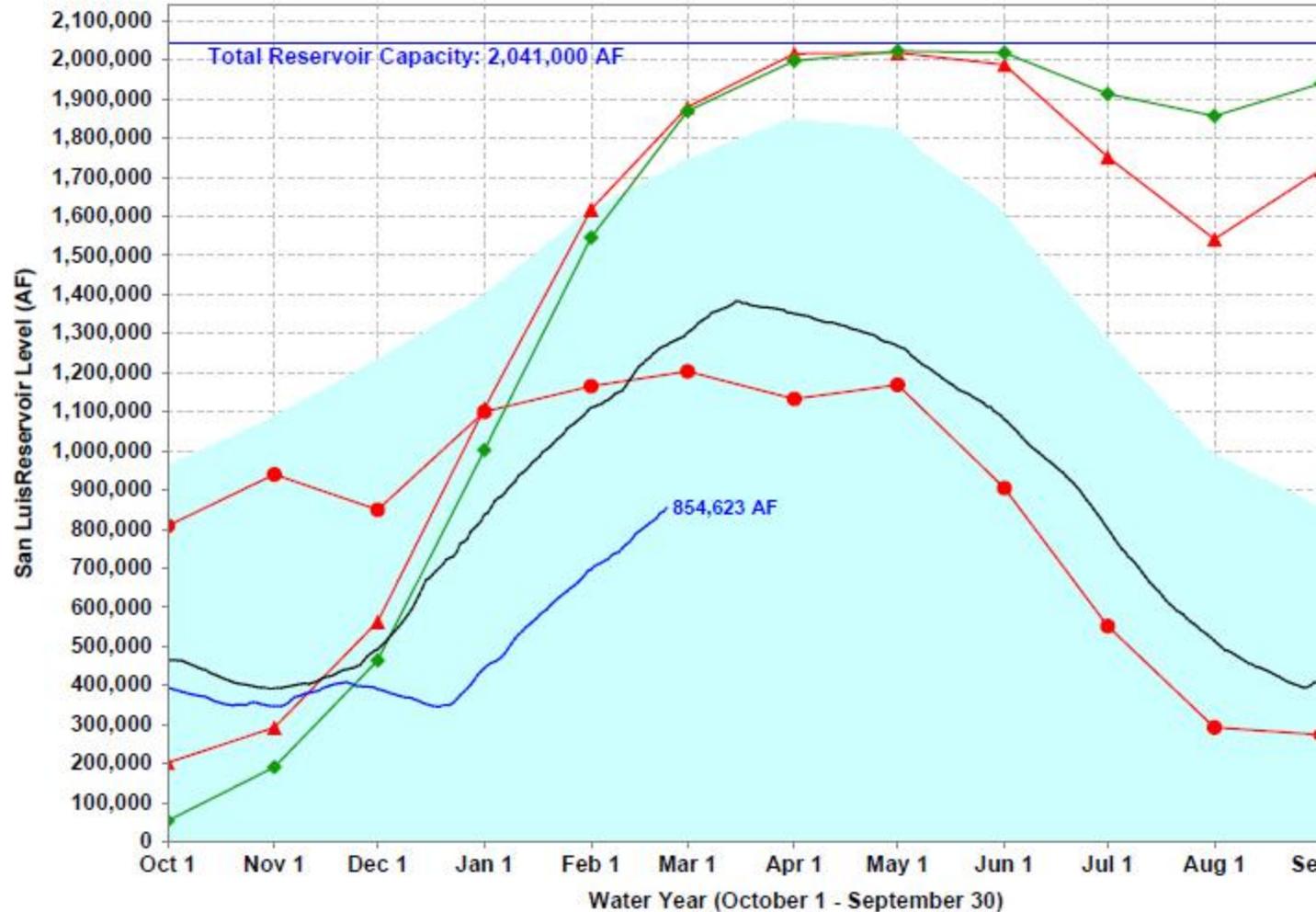
(as of Midnight - February 23, 2016)



Current Level: 854,623 AF

42% (Total Capacity) | 50% (Historical Avg.)

San Luis Levels: Various Past Water Years and Current Water Year, Ending At Midnight February 23, 2016



Historical Average — Total Reservoir Capacity — 1976-1977 (Driest) — 1977-1978 — 1982-1983 (Wettest) — 2014-2015

— Current: 2015-2016

# Snowpack

% of April 1 Average / % of Normal for This Date



## NORTH

Data as of February 24, 2016

Number of Stations Reporting	28
Average snow water equivalent (Inches)	23.9
Percent of April 1 Average (%)	82
Percent of normal for this date (%)	95

## CENTRAL

Data as of February 24, 2016

Number of Stations Reporting	38
Average snow water equivalent (Inches)	22.0
Percent of April 1 Average (%)	78
Percent of normal for this date (%)	93

## SOUTH

Data as of February 24, 2016

Number of Stations Reporting	28
Average snow water equivalent (Inches)	18.2
Percent of April 1 Average (%)	69
Percent of normal for this date (%)	85

## STATE

Data as of February 24, 2016

Number of Stations Reporting	94
Average snow water equivalent (Inches)	21.4
Percent of April 1 Average (%)	77
Percent of normal for this date (%)	92

# SWP/CVP Operations

- Real Time Interagency Coordination
  - DWR, USBR, USFWS, NMFS, DFW, SWRCB
  - Increased external communication
- Objectives:
  - Minimal Water Deliveries (Health and Human Safety)
  - Facilitate Water Transfers
  - Preserve Upstream Water Storage
  - Manage Delta Salinity
  - Minimize Adverse Effects on Listed Fish Species
- Regulatory Adjustments:
  - 2008/2009 Biological Opinions of USFWS and NMFS
  - SWRCB's Water Right Decision 1641 (TUCP Process)

# 2016 Drought Contingency Plan

- Submitted Jan 15 based on Jan 1 hydrologic conditions
  - Provides a framework of potential SWP/CVP operations between Feb and Nov 2016
- Feb 19 Addendum based on Feb 1, 50%, 90% and 99% hydrology includes:
  - Updated hydrology and runoff projections
  - River flow contingency planning to protect upstream fisheries
  - Updated status of species statistics
  - Potential modifications to D-1641 standards

# 2016 SWP Allocations

- Dec 2015 - Initial allocation 10%
- Jan 1016 - Increase to 15%
- Feb 2016 - increase to 30%

SWP CONTRACTORS	Table A	Initial Request	Approved Allocation	Percent Initial Request Approved
<b>FEATHER RIVER</b>				
COUNTY OF BUTTE	27,500	27,500	16,500	60%
PLUMAS COUNTY FC&WCD	2,700	2,700	810	30%
CITY OF YUBA CITY	9,600	9,600	3,840	40%
<b>Subtotal</b>	<b>39,800</b>	<b>39,800</b>	<b>21,150</b>	
<b>NORTH BAY</b>				
NAPA COUNTY FC&WCD	29,025	29,025	11,610	40%
SOLANO COUNTY WA	47,756	47,756	19,102	40%
<b>Subtotal</b>	<b>76,781</b>	<b>76,781</b>	<b>30,712</b>	
<b>SOUTH BAY</b>				
ALAMEDA COUNTY FC&WCD-ZONE 7	80,619	80,619	24,186	30%
ALAMEDA COUNTY WD	42,000	42,000	12,600	30%
SANTA CLARA VALLEY WD	100,000	100,000	30,000	30%
<b>Subtotal</b>	<b>222,619</b>	<b>222,619</b>	<b>66,786</b>	
<b>SAN JOAQUIN VALLEY</b>				
OAK FLAT WATER DISTRICT	5,700	5,700	1,710	30%
COUNTY OF KINGS	9,305	9,305	2,792	30%
DUDLEY RIDGE WATER DISTRICT	45,350	45,350	13,605	30%
EMPIRE WEST SIDE ID	3,000	3,000	900	30%
KERN COUNTY WA	982,730	982,730	294,819	30%
TULARE LAKE BASIN WSD	87,471	87,471	26,241	30%
<b>Subtotal</b>	<b>1,133,556</b>	<b>1,133,556</b>	<b>340,067</b>	
<b>CENTRAL COASTAL</b>				
SAN LUIS OBISPO COUNTY FC&WCD	25,000	25,000	7,500	30%
SANTA BARBARA COUNTY FC&WCD	45,486	45,486	13,646	30%
<b>Subtotal</b>	<b>70,486</b>	<b>70,486</b>	<b>21,146</b>	
<b>SOUTHERN CALIFORNIA</b>				
ANTELOPE VALLEY-EAST KERN WA	144,844	144,844	43,453	30%
CASTAIC LAKE WA	95,200	95,200	28,560	30%
COACHELLA VALLEY WD	138,350	138,350	41,505	30%
CRESTLINE-LAKE ARROWHEAD WA	5,800	5,800	1,740	30%
DESERT WATER AGENCY	55,750	55,750	16,725	30%
LITTLEROCK CREEK ID	2,300	2,300	690	30%
METROPOLITAN WDSC	1,911,500	1,911,500	573,450	30%
MOJAVE WATER AGENCY	85,800	85,800	25,740	30%
PALMDALE WATER DISTRICT	21,300	21,300	6,390	30%
SAN BERNARDINO VALLEY MWD	102,600	102,600	30,780	30%
SAN GABRIEL VALLEY MWD	28,800	28,800	8,640	30%
SAN GORGONIO PASS WA	17,300	17,300	5,190	30%
VENTURA COUNTY WPD	20,000	20,000	6,000	30%
<b>Subtotal</b>	<b>2,629,544</b>	<b>2,629,544</b>	<b>788,863</b>	
<b>SWP TOTAL</b>	<b>4,172,786</b>	<b>4,172,786</b>	<b>1,268,724</b>	



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